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### AMENDMENTS TO THE CLAIMS

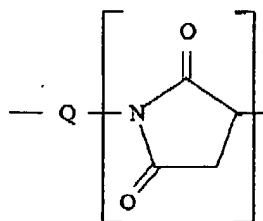
1. (Previously presented) A modified pigment product comprising a pigment having attached at least one organic group represented by the formula  $-X-Sp-Alk$ , wherein X, which is directly attached to the pigment, represents an arylene, heteroarylene, or alkylene group, Sp represents a spacer group, and Alk represents a polymer or oligomer of isobutene, butene, or propene containing 60-200 carbon atoms.

2. (Previously presented) The modified pigment product of claim 1, wherein Alk represents a polymer or oligomer of isobutene, butene, or propene containing 60-100 carbons.

3. (Original) The modified pigment product of claim 1, wherein Alk represents a polymer of butene.

4. (Cancelled)

5. (Previously presented) A modified pigment product comprising a pigment having attached at least one organic group represented by the formula  $-X-Sp-Alk$ , wherein X, which is directly attached to the pigment, represents an arylene, heteroarylene, or alkylene group, Sp represents a spacer group, and Alk represents an alkenyl or alkyl group containing 50-200 carbon atoms, and wherein Sp is a succinimidyl group having the formula:



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wherein Q represents a bond or a  $-\text{SO}_2\text{C}_2\text{H}_4(\text{NR}'\text{Alkylene})_p-$  group, wherein the group Alkylene is a linear or branched  $\text{C}_1\text{-C}_{12}$  alkylene group,  $\text{R}'$  is independently hydrogen, a  $\text{C}_1\text{-C}_6$  alkyl group, or an  $(\text{AlkyleneNR})_p\text{R}$  group, and p is an integer from 0-10, and R, which can be the same or different, represents hydrogen or a substituted or unsubstituted aryl or alkyl group.

6 (Previously presented) A modified pigment product comprising a pigment having attached at least one organic group represented by the formula  $-\text{X-Sp-Alk}$ , wherein X, which is directly attached to the pigment, represents an arylene, heteroarylene, or alkylene group, Sp represents a spacer group, and Alk represents an alkenyl or alkyl group containing 50-200 carbon atoms, and wherein the organic group represented by the formula  $-\text{X-Sp-Alk}$  is a polyisobutenylsuccinimidylphenyl.

7. (Original) The modified pigment product of claim 5, wherein Q is a  $-\text{SO}_2\text{C}_2\text{H}_4(\text{NR}'\text{C}_2\text{H}_4)_p-$  group,  $\text{R}'$  is independently hydrogen or a  $(\text{C}_2\text{H}_4\text{NH})_p\text{H}$  group, and p is an integer from 1-10.

8. (Original) The modified pigment product of claim 5, wherein Q is a bond.

9. (Original) The modified pigment product of claim 1, wherein X is an arylene group.

10. (Previously presented) A dispersion composition comprising a non-aqueous solvent and at least one modified pigment product comprising a pigment having attached at least one organic group represented by the formula  $-\text{X-Sp-Alk}$ , wherein X, which is directly attached to the pigment, represents an arylene, heteroarylene, or alkylene group, Sp represents a spacer group, and Alk represents a polymer or oligomer of isobutene, butene, or propene containing 60-200 carbon atoms.

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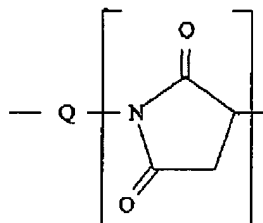
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11. (Previously presented) The dispersion composition of claim 10, wherein Alk represents a polymer or oligomer of isobutene, butene, or propene containing 60-100 carbon atoms.

12. (Original) The dispersion composition of claim 10, wherein Alk represents a polymer of butene.

13. (Cancelled)

14. (Previously presented) A dispersion composition comprising a non-aqueous solvent and at least one modified pigment product comprising a pigment having attached at least one organic group represented by the formula  $-X-Sp-Alk$ , wherein X, which is directly attached to the pigment, represents an arylene, heteroarylene, or alkylene group, Sp represents a spacer group, and Alk represents an alkenyl or alkyl group containing 50-200 carbon atoms, and wherein Sp is a succinimidyl group having the formula:



wherein Q represents a bond or a  $-SO_2C_2H_4(NR'Alkylene)_p-$  group, wherein the group Alkylene is a linear or branched  $C_1-C_{12}$  alkylene group,  $R'$  is independently hydrogen, a  $C_1-C_6$  alkyl group, or an  $(AlkyleneNR)_pR$  group, and p is an integer from 0-10, and R, which can be the same or different, represents hydrogen or a substituted or unsubstituted aryl or alkyl group.

15. (Previously presented) A dispersion composition comprising a non-aqueous solvent and at least one modified pigment product comprising a pigment having attached at least one organic group represented by the formula  $-X-Sp-Alk$ , wherein X, which is directly attached to

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the pigment, represents an arylene, heteroarylene, or alkylene group, Sp represents a spacer group, and Alk represents an alkenyl or alkyl group containing 50-200 carbon atoms, and wherein the organic group represented by the formula  $-X-Sp-Alk$  is a polyisobutenylsuccinimidylphenyl.

16. (Original) The dispersion composition of claim 14, wherein Q is a  $-SO_2C_2H_4(NR'C_2H_5)_p-$  group, R' is independently hydrogen or a  $(C_2H_4NH)_pH$  group, and p is an integer from 1-10.

17. (Original) The dispersion composition of claim 14, wherein Q is a bond.

18. (Original) The dispersion composition of claim 10, wherein the non-aqueous solvent is an aromatic or an aliphatic hydrocarbon solvent.

19. (Currently amended) A printing plate comprising: a) a substrate and b) a radiation-absorptive layer, wherein the radiation-absorptive layer comprises at least one modified pigment product comprising a pigment having attached at least one organic group represented by the formula  $-X-Sp-Alk$ , wherein X, which is directly attached to the pigment, represents an arylene, heteroarylene, or alkylene group, Sp represents a spacer group, and Alk represents an alkenyl or alkyl group a polymer or oligomer of isobutene, butene, or propene containing 50 60- 200 carbon atoms.

20. (Original) The printing plate of claim 19, wherein the radiation-absorptive layer further comprises a polymer.

21. (Cancelled)

22. (Original) The printing plate of claim 19, wherein Alk represents a polymer of

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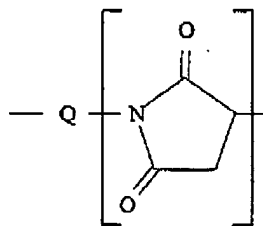
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butene.

23. (Original) The printing plate of claim 19, wherein Alk represents a polymer or oligomer of isobutene, butene, or propene and maleic anhydride or derivatives thereof.

24. (Currently amended) The A printing plate of claim 19, comprising a) a substrate and b) a radiation-absorptive layer, wherein the radiation-absorptive layer comprises at least one modified pigment product comprising a pigment having attached at least one organic group represented by the formula -X-Sp-Alk, wherein X, which is directly attached to the pigment, represents an arylene, heteroarylene, or alkylene group, Sp represents a spacer group, and Alk represents an alkenyl or alkyl group containing 50- 200 carbon atoms, and wherein Sp is a succinimidyl group having the formula:



wherein Q represents a bond or a  $-\text{SO}_2\text{C}_2\text{H}_4(\text{NR}'\text{Alkylene})_p-$  group, wherein the group Alkylene is a linear or branched  $\text{C}_1\text{-C}_{12}$  alkylene group,  $\text{R}'$  is independently hydrogen, a  $\text{C}_1\text{-C}_6$  alkyl group, or an  $(\text{AlkyleneNR})_p\text{R}$  group, and  $p$  is an integer from 0-10, and R, which can be the same or different, represents hydrogen or a substituted or unsubstituted aryl or alkyl group.

25. (Currently amended) The A printing plate of claim 19, comprising a) a substrate and b) a radiation-absorptive layer, wherein the radiation-absorptive layer comprises at least one modified pigment product comprising a pigment having attached at least one organic group represented by the formula -X-Sp-Alk, wherein X, which is directly attached to the pigment, represents an arylene, heteroarylene, or alkylene group, Sp represents a spacer group, and Alk

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represents an alkenyl or alkyl group containing 50- 200 carbon atoms, and wherein the organic group represented by the formula -X-Sp-Alk is a polyisobutenylsuccinimidyphenyl.

26. (Original) The printing plate of claim 24, wherein Q is a  $-\text{SO}_2\text{C}_2\text{H}_4(\text{NR}'\text{C}_2\text{H}_4)_p-$  group, R' is independently hydrogen or a  $(\text{C}_2\text{H}_4\text{NH})_p\text{H}$  group, and p is an integer from 1-10.
27. (Original) The printing plate of claim 24, wherein Q is a bond.
28. (Original) The printing plate of claim 19, wherein the substrate is a hydrophilic metal substrate.
29. (Original) The printing plate of claim 19, wherein the substrate is aluminum or polyester.
30. (Original) The printing plate of claim 19, wherein the polymer is selected from the group of styrene-acrylate polymers, styrene-butadiene copolymers, and acrylic polymers.
31. (Original) A method of imaging the printing plate of claim 19, comprising selectively exposing the plate to a laser output in a pattern representing an image to selectively remove or chemically modify at least the radiation-absorptive layer defining the pattern.
32. (Original) The method of claim 31, further comprising subjecting the plate to a solvent capable of removing portions of the imaged layer(s) defining the pattern.
33. (Currently amended) A flexographic printing plate comprising: a) a substrate, b) a UV curable layer, and c) a radiation-absorptive layer, wherein the radiation-absorptive layer comprises at least one modified pigment product comprising a pigment having attached at least one organic group represented by the formula -X-Sp-Alk, wherein X, which is directly

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attached to the pigment, represents an arylene, heteroarylene, or alkylene group, Sp represents a spacer group, and Alk represents ~~an alkenyl or alkyl group~~ a polymer or oligomer of isobutene, butene, or propene containing ~~50~~ 60-200 carbon atoms.

34. (Original) The flexographic printing plate of claim 33, wherein the radiation-absorptive layer further comprises a polymer.

35. (Currently amended) A thermal transfer recording material comprising: a) an ink layer, b) a photothermal layer, and c) a support, wherein the photothermal layer comprises at least one modified pigment product comprising a pigment having attached at least one organic group represented by the formula -X-Sp-Alk, wherein X, which is directly attached to the pigment, represents an arylene, heteroarylene, or alkylene group, Sp represents a spacer group, and Alk represents ~~an alkenyl or alkyl group~~ a polymer or oligomer of isobutene, butene, or propene containing ~~50~~ 60-200 carbon atoms.

36. (Original) The thermal transfer recording material of claim 35, wherein the photothermal layer further comprises a polymer.

37. (Currently amended) A proofing material comprising: a) a radiation transparent support, b) a radiation curable layer, and c) a receiving layer, wherein the radiation curable layer comprises at least one modified pigment product comprising a pigment having attached at least one organic group represented by the formula -X-Sp-Alk, wherein X, which is directly attached to the pigment, represents an arylene, heteroarylene, or alkylene group, Sp represents a spacer group, and Alk represents ~~an alkenyl or alkyl group~~ a polymer or oligomer of isobutene, butene, or propene containing ~~50~~ 60-200 carbon atoms.

38. (Original) The proofing material of claim 37, wherein the radiation curable layer further comprises a polymer.

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39. (Original) A black matrix formed by applying a photosensitive coating on a clear substrate, exposing the coating imagewise, and developing and drying the coating, wherein the photosensitive coating comprises a solvent and at least one modified pigment product comprising a pigment having attached at least one organic group represented by the formula -X-Sp-Alk, wherein X, which is directly attached to the pigment, represents an arylene, heteroarylene, or alkylene group, Sp represents a spacer group, and Alk represents ~~an alkenyl or alkyl group~~ a polymer or oligomer of isobutene, butene, or propene containing 50 60-200 carbon atoms.

40. (Original) The black matrix of claim 39 further comprising a photosensitive resin.

41. (Currently amended) An electrophoretic display comprising an arrangement of microcapsules, wherein the microcapsules comprise a dielectric fluid and at least one modified pigment product comprising a pigment having attached at least one organic group comprising a group represented by the formula -X-Sp-Alk, wherein X, which is directly attached to the pigment, represents an arylene, heteroarylene group, or alkylene group, Sp represents a spacer group, and Alk represents ~~an alkenyl or alkyl group~~ a polymer or oligomer of isobutene, butene, or propene containing 50 60-200 carbon atoms.

42. (Cancelled)

43. (Original) The electrophoretic display of claim 41, wherein Alk represents a polymer of butene.

44. (Original) The electrophoretic display of claim 41, wherein Alk represents a polymer or oligomer of isobutene, butene, or propene and maleic anhydride or derivatives thereof.

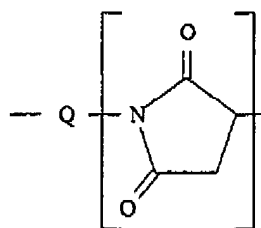


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45. (Currently amended) The An electrophoretic display of ~~claim 41~~, comprising an arrangement of microcapsules, wherein the microcapsules comprise a dielectric fluid and at least one modified pigment product comprising a pigment having attached at least one organic group comprising a group represented by the formula  $-X-Sp-Alk$ , wherein X, which is directly attached to the pigment, represents an arylene, heteroarylene group, or alkylene group, Sp represents a spacer group, and Alk represents an alkenyl or alkyl group containing 50-200 carbon atoms, and wherein Sp is a succinimidyl group having the formula:



wherein Q represents a bond or a  $-SO_2C_2H_4(NR'Alkylene)_p-$  group, wherein the group Alkylene is a linear or branched  $C_1-C_{12}$  alkylene group,  $R'$  is independently hydrogen, a  $C_1-C_6$  alkyl group, or an  $(AlkyleneNR)_pR$  group, and p is an integer from 0-10, and R, which can be the same or different, represents hydrogen or a substituted or unsubstituted aryl or alkyl group.

46. (Currently amended) The An electrophoretic display of ~~claim 41~~, comprising an arrangement of microcapsules, wherein the microcapsules comprise a dielectric fluid and at least one modified pigment product comprising a pigment having attached at least one organic group comprising a group represented by the formula  $-X-Sp-Alk$ , wherein X, which is directly attached to the pigment, represents an arylene, heteroarylene group, or alkylene group, Sp represents a spacer group, and Alk represents an alkenyl or alkyl group containing 50-200 carbon atoms, and wherein the organic group represented by the formula  $-X-Sp-Alk$  is a polyisobutenylsuccinimidylphenyl.

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47. (Original) The electrophoretic display of claim 45, wherein Q is a  $-\text{SO}_2\text{C}_2\text{H}_4(\text{NR}'\text{C}_2\text{H}_4)_p-$  group, R' is independently hydrogen or a  $(\text{C}_2\text{H}_4\text{NH})_p\text{H}$  group, and p is an integer from 1-10.

48. (Original) The electrophoretic display of claim 45, wherein Q is a bond.

49. (Currently amended) A non-aqueous inkjet ink composition comprising a non-aqueous vehicle and a modified pigment product comprising a pigment having attached at least one organic group comprising a group represented by the formula  $-\text{X}-\text{Sp}-\text{Alk}$ , wherein X, which is directly attached to the pigment, represents an arylene, heteroarylene, or alkylene group, Sp represents a spacer group, and Alk represents ~~an alkenyl or alkyl group~~ a polymer or oligomer of isobutene, butene, or propene containing 50 60-200 carbon atoms.

50. (Original) The inkjet ink composition of claim 49, wherein the non-aqueous vehicle is a liquid vehicle.

51. (Original) The inkjet ink composition of claim 49, wherein the non-aqueous vehicle is a solid vehicle.

52. (Previously presented) A non-aqueous coating composition comprising the modified pigment product of claim 1.

53. (Previously presented) A polymer composition comprising the modified pigment product of claim 1.

54. (Previously presented) A non-aqueous ink composition comprising the modified pigment product of claim 1.

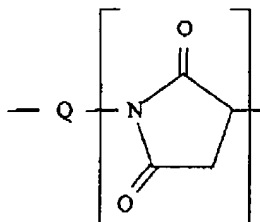
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55. (Previously presented) A toner composition comprising the modified pigment product of claim 1.

56. (New) A flexographic printing plate comprising: a) a substrate, b) a UV curable layer, and c) a radiation-absorptive layer, wherein the radiation-absorptive layer comprises at least one modified pigment product comprising a pigment having attached at least one organic group represented by the formula  $-X-Sp-Alk$ , wherein X, which is directly attached to the pigment, represents an arylene, heteroarylene, or alkylene group, Sp represents a spacer group, and Alk represents an alkenyl or alkyl group containing 50-200 carbon atoms, and wherein Sp is a succinimidyl group having the formula:



wherein Q represents a bond or a  $-SO_2C_2H_4(NR'Alkylene)_p-$  group, wherein the group Alkylene is a linear or branched  $C_1-C_{12}$  alkylene group,  $R'$  is independently hydrogen, a  $C_1-C_6$  alkyl group, or an  $(AlkyleneNR)_pR$  group, and p is an integer from 0-10, and R, which can be the same or different, represents hydrogen or a substituted or unsubstituted aryl or alkyl group.

57. (New) A flexographic printing plate comprising: a) a substrate, b) a UV curable layer, and c) a radiation-absorptive layer, wherein the radiation-absorptive layer comprises at least one modified pigment product comprising a pigment having attached at least one organic group represented by the formula  $-X-Sp-Alk$ , wherein X, which is directly attached to the pigment, represents an arylene, heteroarylene, or alkylene group, Sp represents a spacer group, and Alk represents an alkenyl or alkyl group containing 50-200 carbon atoms,

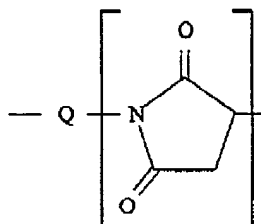
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and wherein the organic group represented by the formula  $-X-Sp-Alk$  is a polyisobutenylsuccinimidylphenyl.

58. (New) A thermal transfer recording material comprising: a) an ink layer, b) a photothermal layer, and c) a support, wherein the photothermal layer comprises at least one modified pigment product comprising a pigment having attached at least one organic group represented by the formula  $-X-Sp-Alk$ , wherein X, which is directly attached to the pigment, represents an arylene, heteroarylene, or alkylene group, Sp represents a spacer group, and Alk represents an alkenyl or alkyl group containing 50-200 carbon atoms, and wherein Sp is a succinimidyl group having the formula:



wherein Q represents a bond or a  $-SO_2C_2H_4(NR'Alkylene)_p-$  group, wherein the group Alkylene is a linear or branched  $C_1-C_{12}$  alkylene group,  $R'$  is independently hydrogen, a  $C_1-C_6$  alkyl group, or an  $(AlkyleneNR)_pR$  group, and p is an integer from 0-10, and R, which can be the same or different, represents hydrogen or a substituted or unsubstituted aryl or alkyl group.

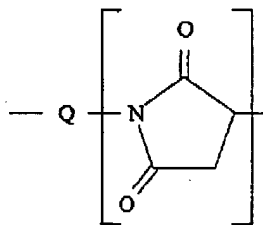
59. (New) A thermal transfer recording material comprising: a) an ink layer, b) a photothermal layer, and c) a support, wherein the photothermal layer comprises at least one modified pigment product comprising a pigment having attached at least one organic group represented by the formula  $-X-Sp-Alk$ , wherein X, which is directly attached to the pigment, represents an arylene, heteroarylene, or alkylene group, Sp represents a spacer group, and Alk represents an alkenyl or alkyl group containing 50-200 carbon atoms, and wherein the organic group represented by the formula  $-X-Sp-Alk$  is a polyisobutenylsuccinimidylphenyl.

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60. (New) A proofing material comprising: a) a radiation transparent support, b) a radiation curable layer, and c) a receiving layer, wherein the radiation curable layer comprises at least one modified pigment product comprising a pigment having attached at least one organic group represented by the formula  $-X-Sp-Alk$ , wherein X, which is directly attached to the pigment, represents an arylene, heteroarylene, or alkylene group, Sp represents a spacer group, and Alk represents an alkenyl or alkyl group containing 50-200 carbon atoms, and wherein Sp is a succinimidyl group having the formula:



wherein Q represents a bond or a  $-SO_2C_2H_4(NR'Alkylene)_p-$  group, wherein the group Alkylene is a linear or branched  $C_1-C_{12}$  alkylene group, R' is independently hydrogen, a  $C_1-C_6$  alkyl group, or an  $(AlkyleneNR)_pR$  group, and p is an integer from 0-10, and R, which can be the same or different, represents hydrogen or a substituted or unsubstituted aryl or alkyl group.

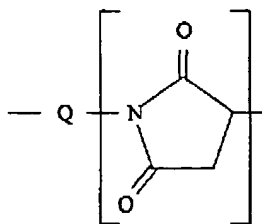
61. (New) A proofing material comprising: a) a radiation transparent support, b) a radiation curable layer, and c) a receiving layer, wherein the radiation curable layer comprises at least one modified pigment product comprising a pigment having attached at least one organic group represented by the formula  $-X-Sp-Alk$ , wherein X, which is directly attached to the pigment, represents an arylene, heteroarylene, or alkylene group, Sp represents a spacer group, and Alk represents an alkenyl or alkyl group containing 50-200 carbon atoms, and wherein the organic group represented by the formula  $-X-Sp-Alk$  is a polyisobutenylsuccinimidylphenyl.

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62. (New) A black matrix formed by applying a photosensitive coating on a clear substrate, exposing the coating imagewise, and developing and drying the coating, wherein the photosensitive coating comprises a solvent and at least one modified pigment product comprising a pigment having attached at least one organic group represented by the formula  $-X-Sp-Alk$ , wherein X, which is directly attached to the pigment, represents an arylene, heteroarylene, or alkylene group, Sp represents a spacer group, and Alk represents an alkenyl or alkyl group containing 50-200 carbon atoms, and wherein Sp is a succinimidyl group having the formula:



wherein Q represents a bond or a  $-SO_2C_2H_4(NR'Alkylene)_p-$  group, wherein the group Alkylene is a linear or branched  $C_1-C_{12}$  alkylene group, R' is independently hydrogen, a  $C_1-C_6$  alkyl group, or an  $(AlkyleneNR)_pR$  group, and p is an integer from 0-10, and R, which can be the same or different, represents hydrogen or a substituted or unsubstituted aryl or alkyl group.

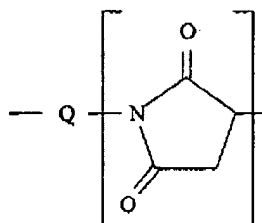
63. (New) A black matrix formed by applying a photosensitive coating on a clear substrate, exposing the coating imagewise, and developing and drying the coating, wherein the photosensitive coating comprises a solvent and at least one modified pigment product comprising a pigment having attached at least one organic group represented by the formula  $-X-Sp-Alk$ , wherein X, which is directly attached to the pigment, represents an arylene, heteroarylene, or alkylene group, Sp represents a spacer group, and Alk represents an alkenyl or alkyl group containing 50-200 carbon atoms, and wherein the organic group represented by the formula  $-X-Sp-Alk$  is a polyisobutenylsuccinimidylphenyl.

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64. (New) A non-aqueous inkjet ink composition comprising a non-aqueous vehicle and a modified pigment product comprising a pigment having attached at least one organic group comprising a group represented by the formula  $-X-Sp-Alk$ , wherein X, which is directly attached to the pigment, represents an arylene, heteroarylene, or alkylene group, Sp represents a spacer group, and Alk represents an alkenyl or alkyl group containing 50-200 carbon atoms, and wherein Sp is a succinimidyl group having the formula:



wherein Q represents a bond or a  $-SO_2C_2H_4(NR'Alkylene)_p-$  group, wherein the group Alkylene is a linear or branched  $C_1-C_{12}$  alkylene group, R' is independently hydrogen, a  $C_1-C_6$  alkyl group, or an  $(AlkyleneNR)_pR$  group, and p is an integer from 0-10, and R, which can be the same or different, represents hydrogen or a substituted or unsubstituted aryl or alkyl group.

65. (New) A non-aqueous inkjet ink composition comprising a non-aqueous vehicle and a modified pigment product comprising a pigment having attached at least one organic group comprising a group represented by the formula  $-X-Sp-Alk$ , wherein X, which is directly attached to the pigment, represents an arylene, heteroarylene, or alkylene group, Sp represents a spacer group, and Alk represents an alkenyl or alkyl group containing 50-200 carbon atoms, and wherein the organic group represented by the formula  $-X-Sp-Alk$  is a polyisobutenylsuccinimidylphenyl.

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